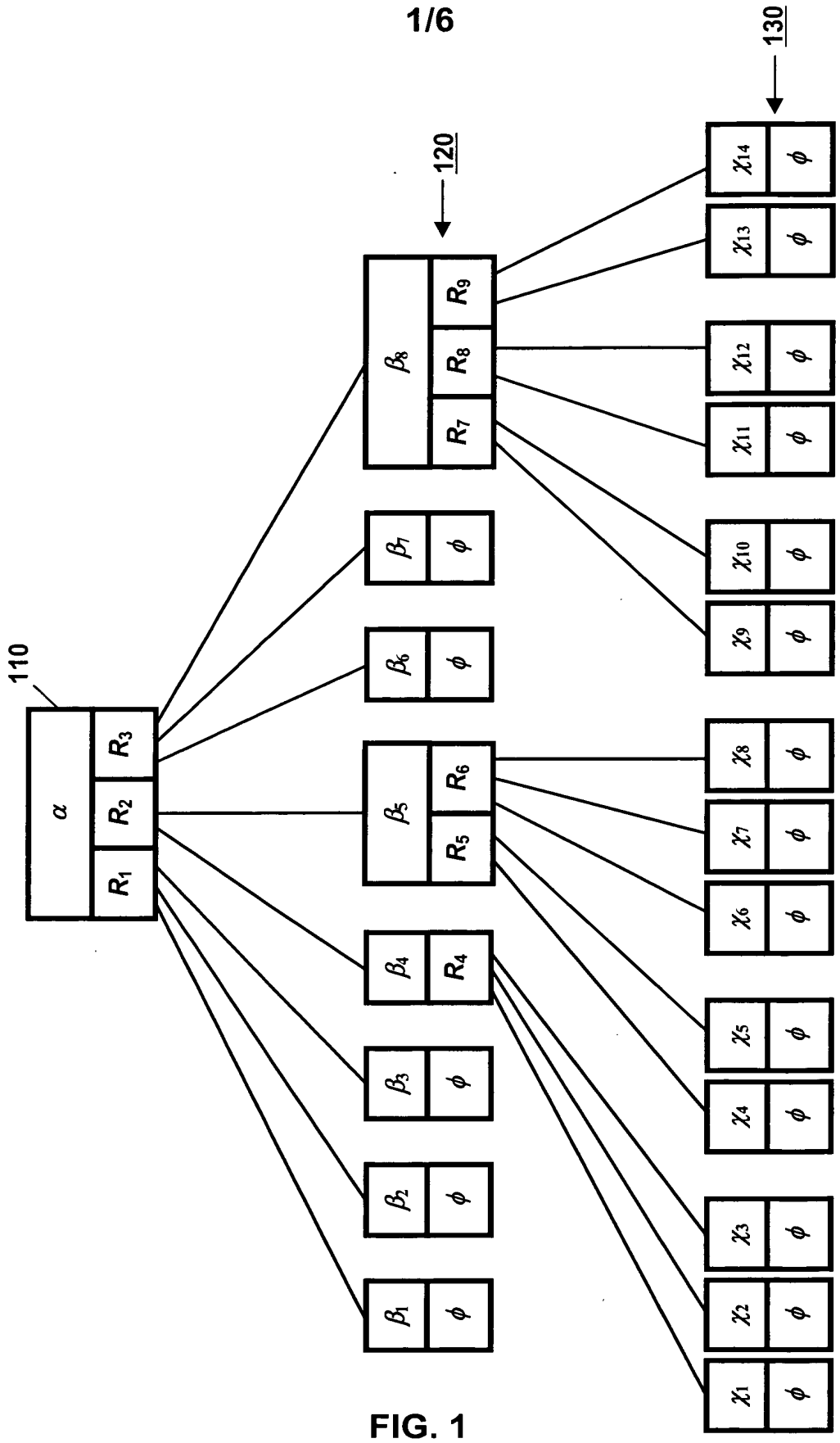

FIG. 1

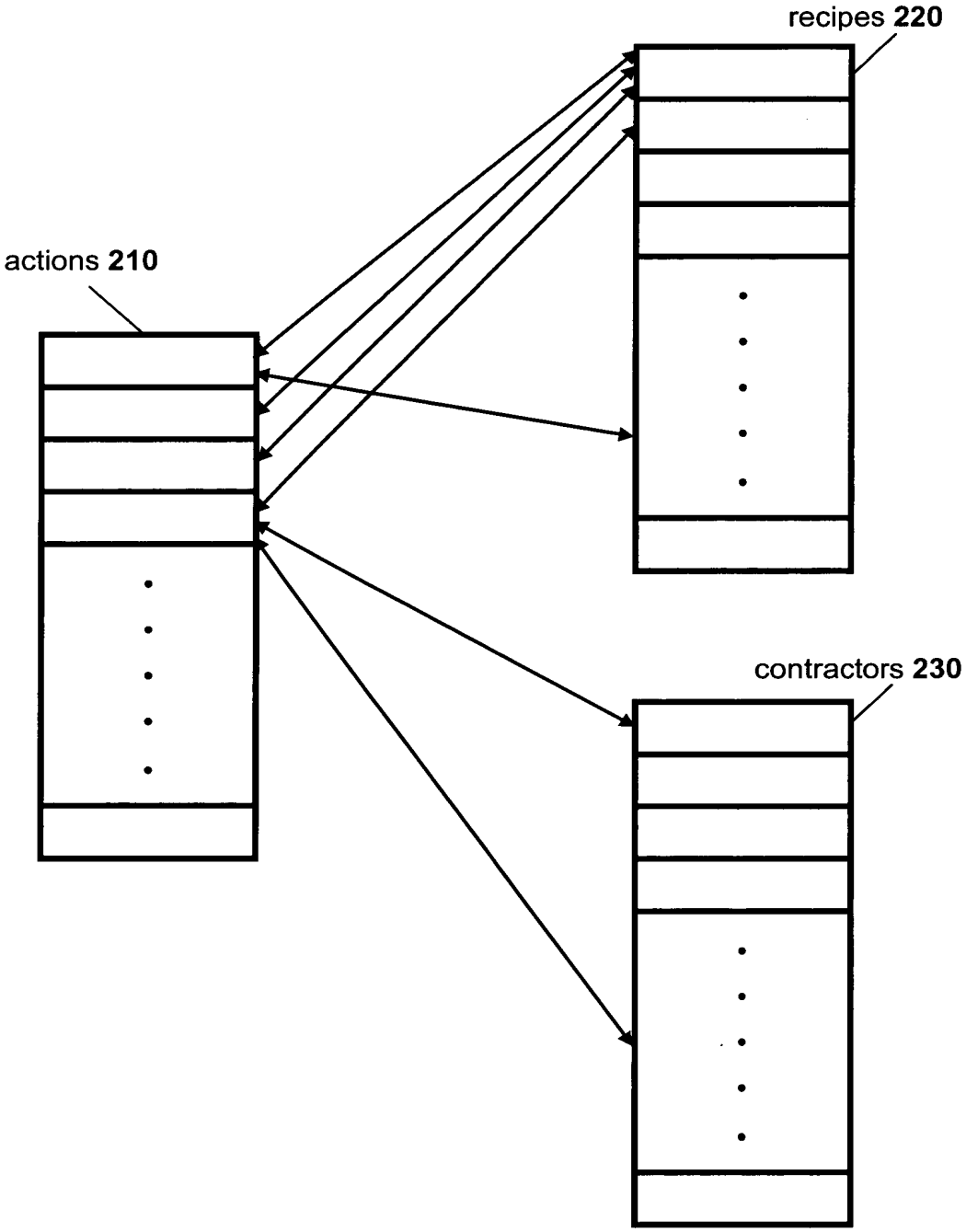

FIG. 2

```
for i=1 to length(actions)

    if (actions[i].basicLevel())
        actions[i].complexity=[actions[i].cost];
        for j=1 to length(actions[i].actionOf())
            (actions[i].actionOf())[j].updateRequired=true;
        end for
    end if

    for j=1 to length(actions[i].contractors())
        if actions[i].complexity=[ ]
            actions[i].complexity=
            contractors[(actions[i].contractors())[j]].getComplexity(actions[i]);
        else
            actions[i].complexity=actions[i].complexity
            contractors[(actions[i].contractors())[j]].getComplexity(actions[i]);
        end if
        for j=1 to length(actions[i].actionOf())
            (actions[i].actionOf())[j].updateRequired=true;
        end for
    end for

end for
```

FIG. 3

```
bothDone=false;

while(! bothDone)

    while(!recipeDone)
        recipeDone=true;
        for i=1 to length(recipes)
            if (recipes[i].updateRequired)
                recipes[i].complexity=[0];
                for j=1 to length(recipes[i].actions())
                    recipes[i].complexity=recipes[i].complexity
                    (recipes[i].actions())[j].complexity;
                end for
                recipeDone=false;
                for j=1 to length(recipes[i].recipeFor())
                    (recipes[i].recipeFor())[j].updateRequired=true;
                end for
            end if
        end for
    end while

    while(!actionDone)
        actionDone=true;
        for i=1 to length(actions)
            if (actions[i].updateRequired)
                actions[i].complexity=  ;
                for j=1 to length(actions[i].recipes())
                    actions[i].complexity=actions[i].complexity
                    (actions[i].recipes())[j].complexity;
                end for
                actionDone=false;
                for j=1 to length(actions[i].actionOf())
                    (actions[i].actionOf())[j].updateRequired=true;
                end for
            end if
        end for
    end while

    if (recipeDone && actionDone)
        bothDone=true;
    else
        recipeDone=false;
        actionDone=false;
    end if

end while
```

FIG. 4

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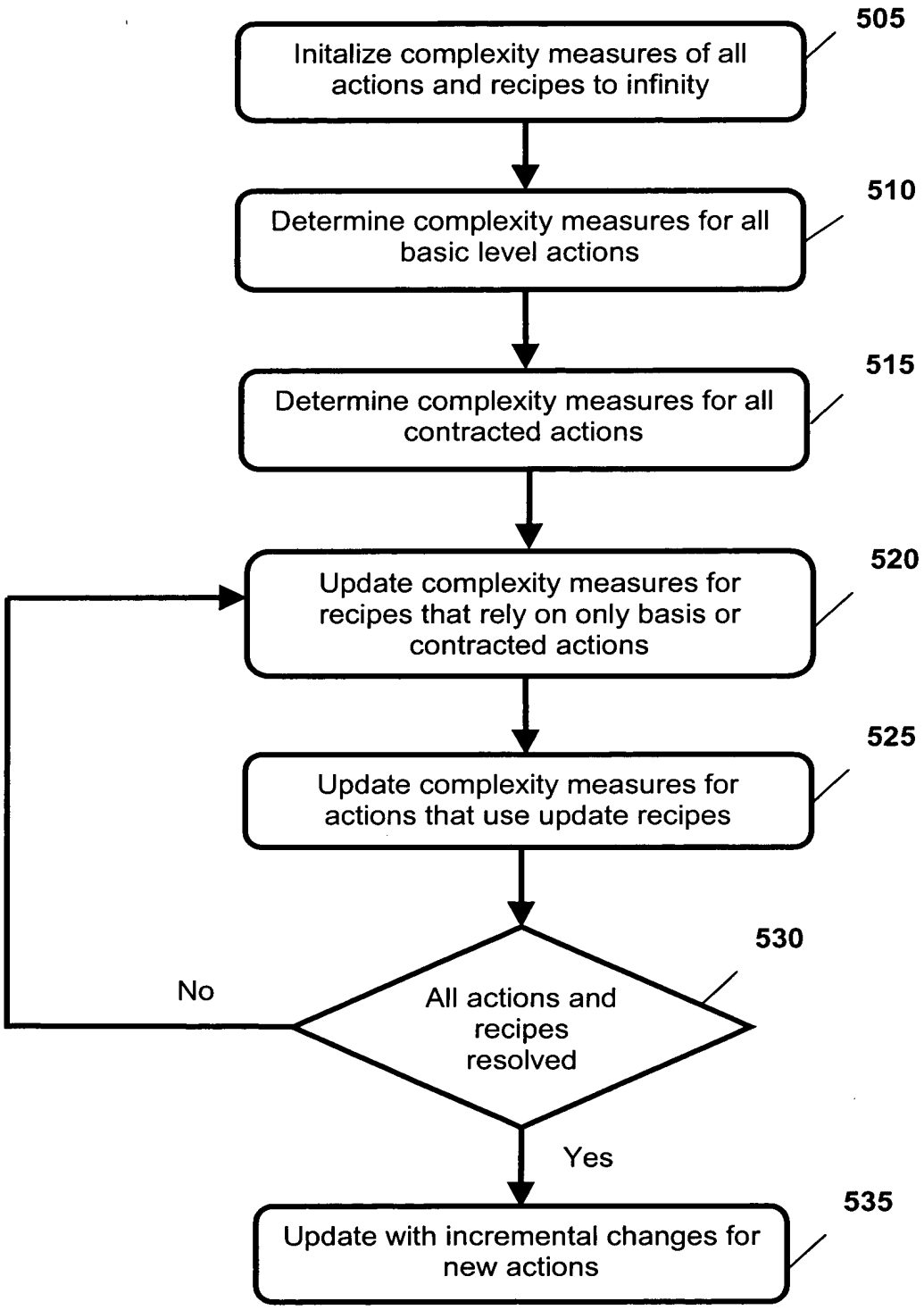

FIG. 5

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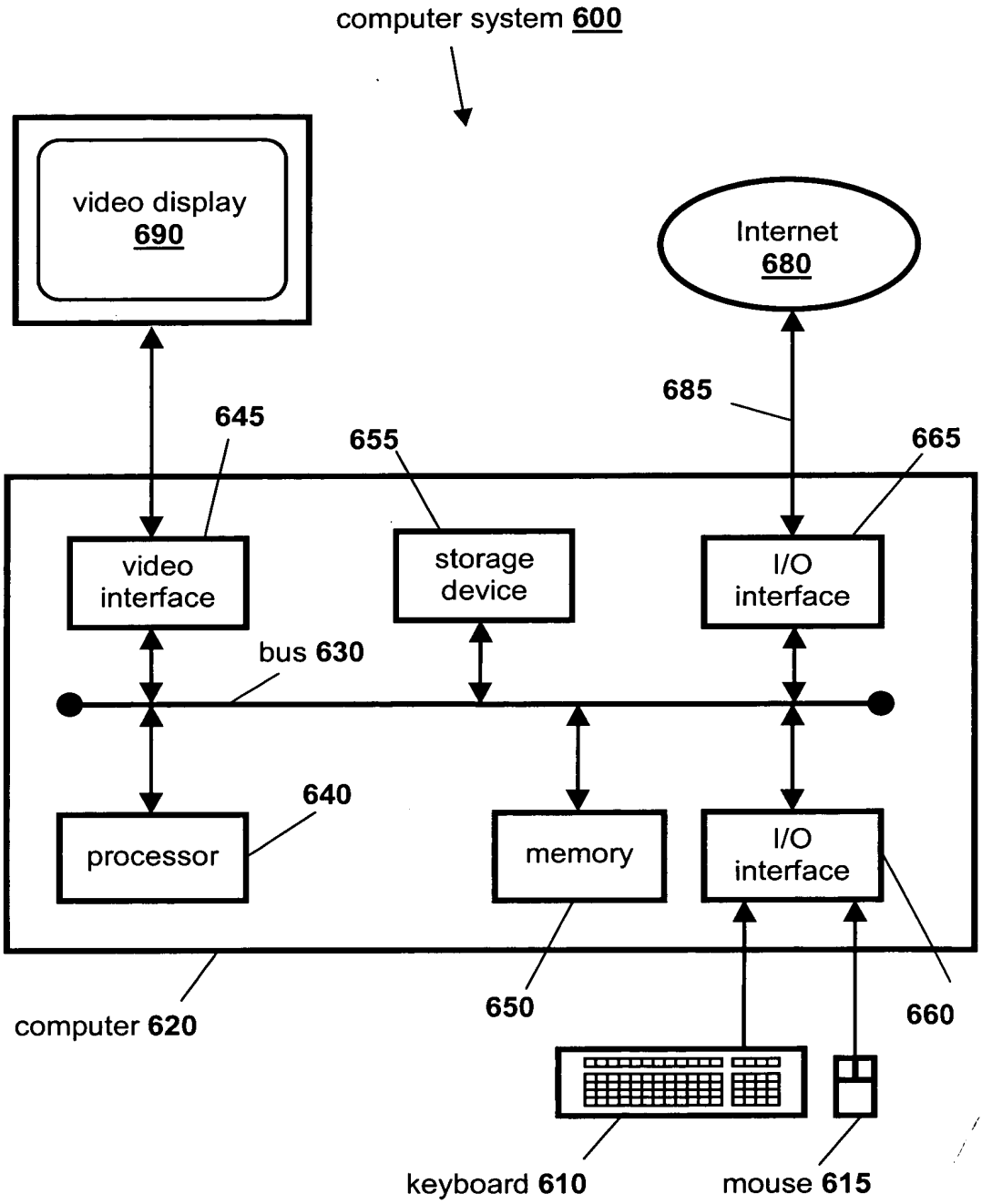

FIG. 6